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## Product Datasheet

### Metformin HCl, CAS [[1115-70-4]] FBM-10-2469

Article Name	Metformin HCl, CAS [[1115-70-4]]
Biozol Catalog Number	FBM-10-2469
Supplier Catalog Number	10-2469
Alternative Catalog Number	FBM-10-2469-5G,FBM-10-2469-25G
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Anti-diabetic agent...
Molecular Weight	165.63
Purity	98%, NMR (Conforms)
Form	White solid
CAS Number	[1115-70-4]
Formula	C <sub>4</sub> H <sub>11</sub> N <sub>5</sub> HCl
Application Notes	Clinically useful antidiabetic agent. Lowers plasma glucose levels and improves insulin sensitivity. Inhibits hepatic gluconeogenesis by activation of the AMP-activated protein kinase (AMPK) pathway. <sup>1,2</sup> Displays antiproliferative and pro-apoptotic actions in a variety of cancer cell lines. <sup>3,4</sup> Induces autophagy via inhibition of the mTOR pathway. Activates PGC1 and improves mitochondrial dynamics in renal tubular cells. <sup>5</sup> Upregulates SIRT1 activity in endothelial cells. <sup>6</sup> Neuroprotective and lowers -synuclein phosphorylation in the Parkinsons disease MPTP mouse model. <sup>7</sup>